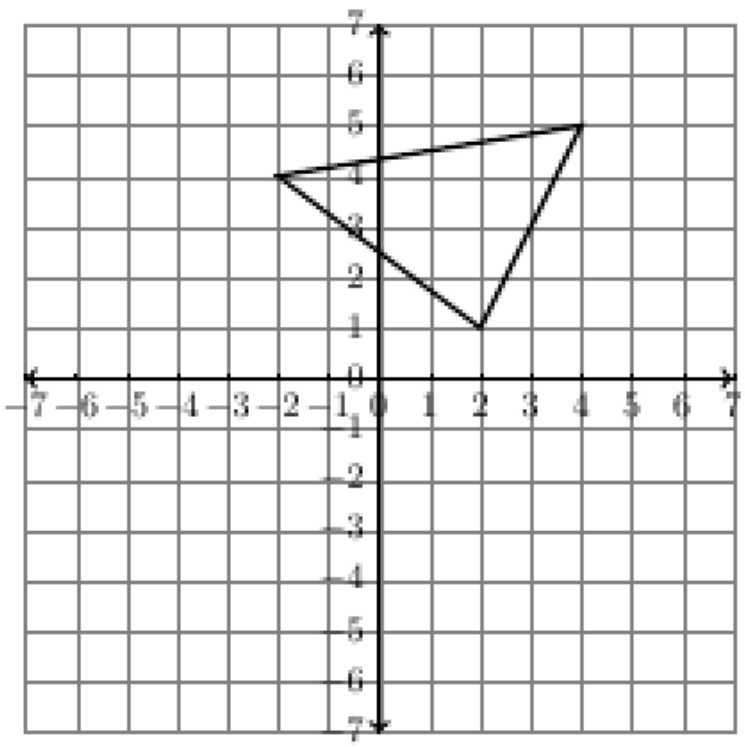
Topic: Reflecting figures in coordinate space

Question: What will be the lowest point in the image?

The triangle is reflected in the x-axis.



Answer choices:

A $(4, -5)$

B $(2,1)$

C $(2, -1)$

D $(-2, -4)$

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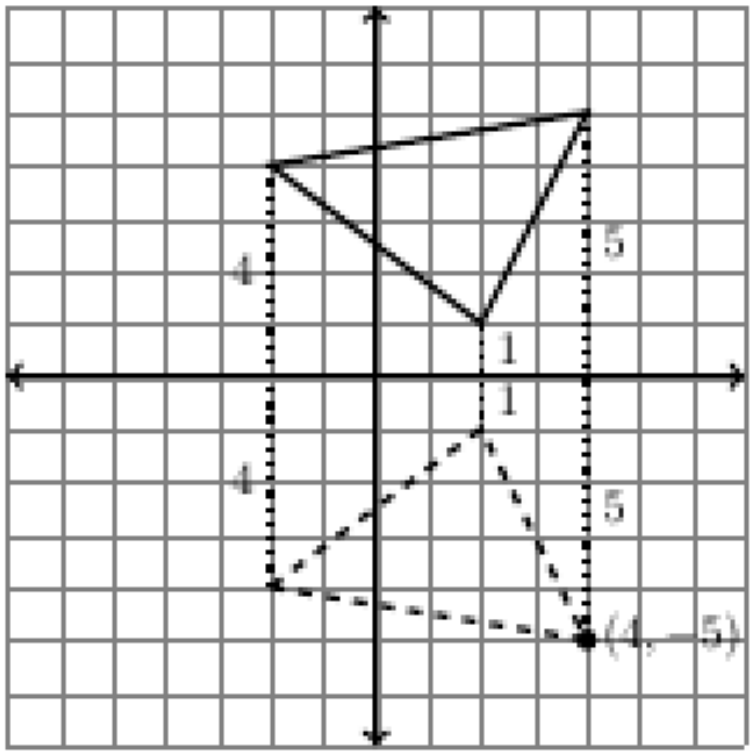
Solution: A

After reflecting the triangle across the x-axis, the figure shows that the lowest point is $(4, -5)$.



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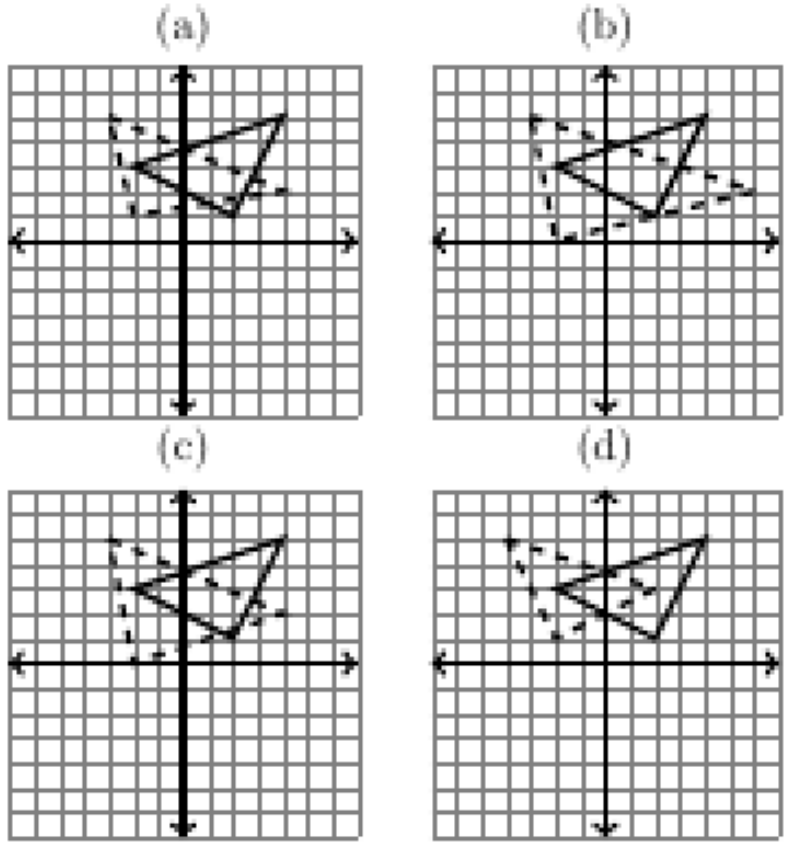
Topic: Reflecting figures in coordinate space

Question: Which figure correctly shows the reflection?

The triangle is reflected in the y-axis.



Answer choices:

A A

B B

C C

D D

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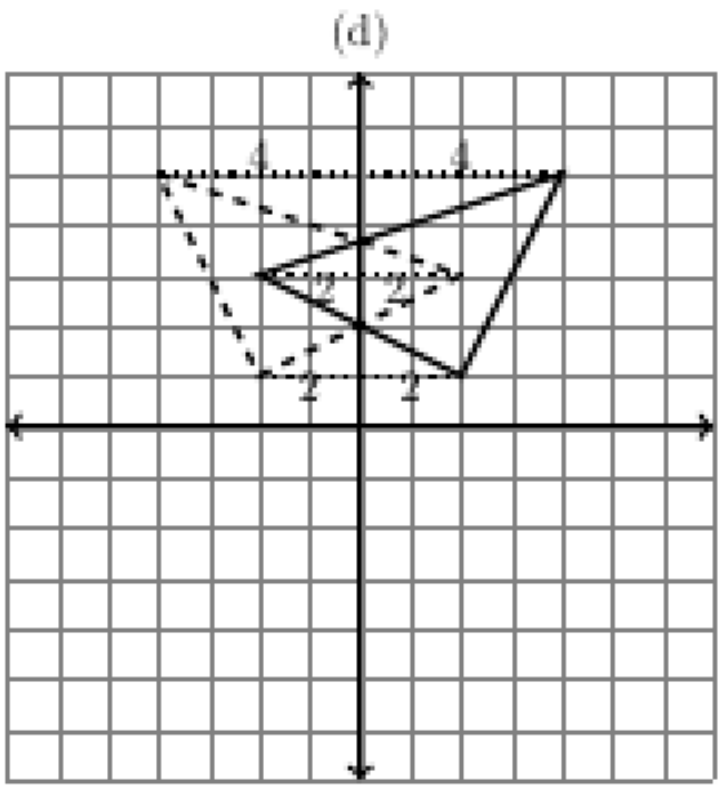
Solution: D

In figure D, each vertex of the triangle is correctly reflected along a line perpendicular to the y-axis such that the point and its image are equidistant from the y-axis.



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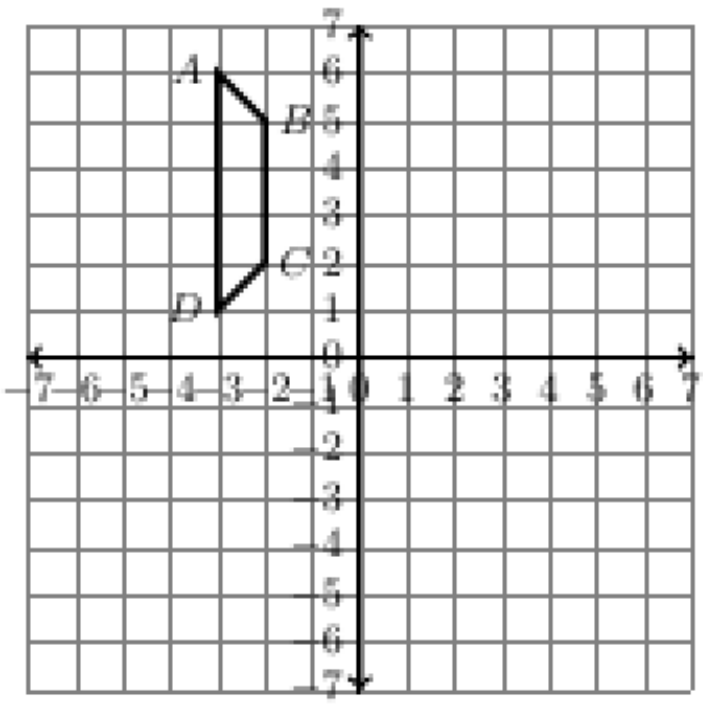
Topic: Reflecting figures in coordinate space

Question: What will be the location of the new point?

If the trapezoid $ABCD$ is reflected in the line $x = 2$, what will be the location of D', the image of D?



Answer choices:

A (3,1)

B (2,1)

C (7,1)

D (6,1)

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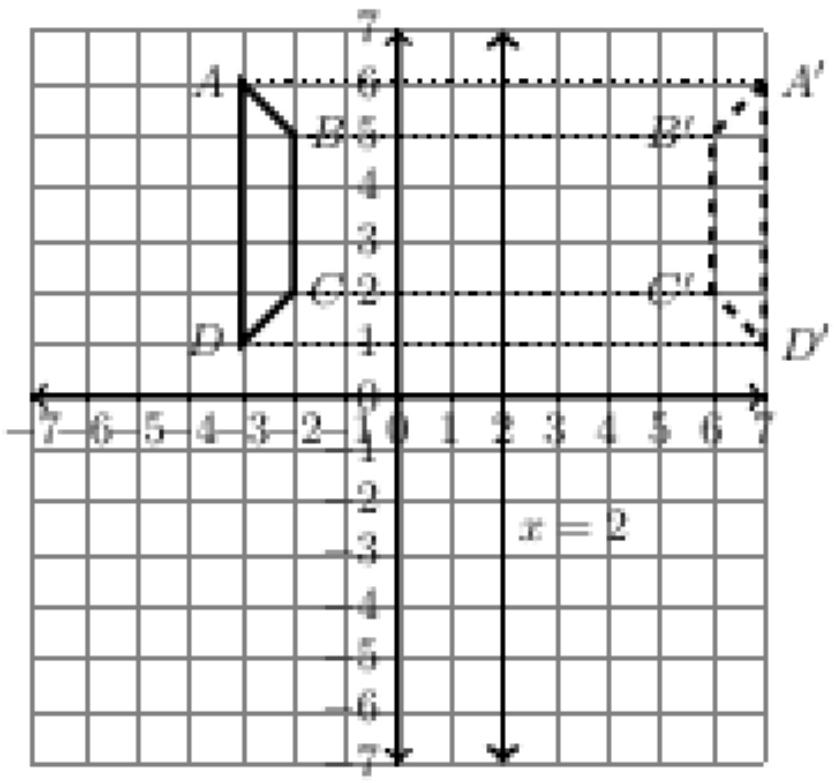
Solution: C

The distance from D to $x = 2$ is 5, so D' is 5 units to the right of $x = 2$.



That gives $(7,1)$ for D'.

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